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Post-processing: Minimum Match 0%
Listing first 45 summaries
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Maximum DB seq length: 1000000
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Perfect score:
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-75.331 Million cell updates/sec
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Gapop 10.0 , Gapext 1.0
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gb_pl2: *
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•	: 5.70	em_hum5	_htg3	em_htg2	em_htg1	/ bau
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Searched:

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ALIGNMENTS

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Schlueter,G. and Engel,W.
Genomic sequence of the mouse protamine g
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Schlueter, G.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Direct Submission
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lated sequences: X07625, X07626, M60254.
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expressed; chromatin binding"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note="male germcell specific, chromatin binding"
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GGGTCGCGAGAACCTGGCGCGCATCCCTCTTAACCCCGGTACTCCGTGACTACCTGAGTTC
                                                          GCGCCAGCGCGCGTGCGGCCGCTGCAGGAGCTGTGTCGCCAGCGCATCGTGGCCGCCGT
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RTHRAKRRTSGRRKK
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Pred. No. 2.6e-210;
0; Mismatches 5;
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U88325
                                                                                                 Submitted (04-FEB-1997) Cancer Research Hall Institute of Medical Research, PO F VIC 3050, Australia
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97345633
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Starr,R., Willson,T.A., V.
Jenkins,B.J., Gonda,T.J.,
                                                                                                                               Direct Submission
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Jenkins, B.J., Gonda, T.J.,
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                               119.
                   /gene=
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|19. .757
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                                                                                                                                                                                                                                                                                                                                   1185 bp mRNA ROD suppressor of cytokine signalling-1
          e="SOCS-1"
.757
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W.S., Metcalf,
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Royal
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D., Nicola,N.A.
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D., Nicola, N.A.
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Query Match
Best Local Similarity
Matches 1139; Conserv
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  Conservative
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LVRDSRQRNCFFALSVKMASGETSIRVHEQAGREHLDGSRETFOCLFELLEHYVAAPR
RMLGAFLRQRRVRPLQELCRQRIVAAYGRENLARIPLNPVLRDYLSSFPFQI"
                     90.6%;
97.2%;
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Pred. No. 1.8e-1
0; Mismatches
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          DB
192;
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0;
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968 GCCGTGGGTCGCGAGAACCTGGCGCGCGCATCCCTCTTAACCCGGTACTCCGTGACTACCTG AGCGTGCACGGGGCGCACGAGCGGCTGCGTGCCGAGCCCGTGGGCACCTTCTTGGTGCGC CGGCGCATCACGCGGACCAGCGCCTCCTGGACGCCTGCTGCTATTGGGGACCCCCTG GTCCCAGCCCCAGCCCCTGGCGACACTCACTTCCGCACCTTCCGCTCCCACTCCGATTAC TCCTCGTCCTCGTCTCGTCCTCGCCAGCGGCCCCCGTGCGTCCCCGGCCCTGCCCGGCGGGGGGCCTGCCTCGTCCTCGTCTTCGTCCTCGCCAGCGGCCCCCGTGCGTCCCCGGGCCCTGCCCCGGCC CAGGTGGCAGCCGACAATGCGATCTCCCCGGCAGGACCCCGACGGCGGTCAGAGCCC CCCCGGACGCTATGGCCCACCCCTCCAGCTGGCCCCTCGAGTAGGATGGTAGCACGCAAC 175 TGGCCGGCCTGTGCCACCCGGACGCCCGGCTCACTGCCTCTGTCTCCCCCATCAGCGCAG CCGCTGCGCCAGCGCCGCTGCGGCCGCTGCAGGAGCTGTGTCGCCCAGCGCATCGTGGCC AGCATCCGCGTGCACTTCCAGGCCGGCCGCTTCCACTTGGACGGCAGCCGCGAGACCTTC GACAGTCGCCAACGGAACTGCTTCTTCGCGCTCAGCGTGAAGATGGCTTCGGGCCCCACG GACAGTCGTCAACGGAACTGCTTCTTCGCGCTCAGCGTGAAGATGGCTTCGGGCCCCACG CGGCGCATCACGCGGACCAGCGCGCTCCTGGACGCCTGCGGCTTCTATTGGGGACCCCTG TGCGCGACAGCCGCCCGGAGCCCCAGCCGCGCTCCCCGCGTCCTGCCGCCAGCGCAG CCTTATTATTCTTATTATTAATTATTATTATTTTTCTGGAACCACGTGGGAGCCCTCCC AGTTCCTTCCCCTTCCAGATCTGACCGGCTGCCGCTGTGCCGCAGCATTAAGTGGGGGGCG GCCGTGGGTCGCGAGAACCTGGCGCGCATCCCTCTTAACCCGGTACTCCGTGACTACCTG CCGCTGCGCCAGCGCGCGCGCGCGCCGCTGCAGGAGCTGTCGCCAGCGCATCGTGGCC GACTGCCTTTTCGAGCTGCTGGAGCACTACGTGGCGGCGCCGCCGCCGCATGTTGGGGGGCC AGCATCCGCGTGCACTTCCAGGCCGGCCGTTCCACTTGGACGGCAGCCGCGAGACCTTC CAGGTGGCAGCCGACAATGCGATCTCCCCGGCAGCAGAGCCCCGACGGCGGTCAGAGCCC CCCCGGACGCTATGGCCCACCCCTCCAGCTGGCCCCTCGAGTAGGATGGTAGCACGCAAC 955 853 895 793 835 733 775 673 715 613 655 595 493 433 475 415 355 73 553 535 373 313 295 235 133 253 193

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Socsl binds to multiple signalling proteins and suppresses steel factor-dependent proliferation
EMBO J. 18 (4), 904-915 (1999)
99146908
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eukaryota; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 1193)
De Sepulveda, P., Okkenhaug, K., La Rose, J., Hawley, R.G., Dubreuil, P.
                                                                                                                                                                                                                                                                                                                                                                                                        Direct Submission
Submitted (15-JAN-1999) Experimental Therapeutics, Ontario Cancer
Institute, 610 University Avenue, Toronto, ON M5G 2M9, Canada
Location/Qualifiers
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                                                                                      180
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a 419 c 339 g 255 t
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/chromosome="16"
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90.5%;
97.3%;
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 Score 1117.8; DB 12; Pred. No. 3.1e-192;
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                   Length 1193;
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	Qy		CCGGCCTGTGCCACCGGACCGCCTCACTGCCTCTGTCTCCCCCATCAGCGCAG 1	
	8	. 25	GCGCGACAGCCGCCCGGAGCCCCCAGCCGCGCTCCCCGCGTCCTGCCGCCAGCGCA	-
	Qy	116	CCCCGGACGCTATGGCCCACCCCTCCAGCTGGCCCCTCGAGTAGGATGGTAGCACGCAAC 1	75
	ф	85	CCCGGACGCTATGGCCCACCCCTCCAGCTGGCCCCTCGAGTAGGATGGTAGCACGCAAC 1	44
•	Qy	176	CAGGTGGCAGCCGACATGCGATCTCCCCGGCAGCAGAGCCCCGAACGGCGGTCAGAGCCC 2	35
	Db	145	AGGTGGCAGCCGACAATGCGATCTCCCCGGCAGCAGAGCCCCCGACGGCGGTCAGAGCC	04
	Qy	236	TCCTCGTCCTCGTCTTCGTCCTCGCCAGCGGCCCCCGTGCGTCCCCGGCCCTGCCCGGCC 2	95
	ф	205	cerecrecrererregreeredeckacegececegracereceageceracecage	64
	Qy	296	GTCCCAGCCCCAGCCCCTGGCGACACTCACTTCCGCACCCTTCCGCTCCCAACTCCGATTAC 3	55
•	ф	265	TCCCAGCCCCAGCCCTGGCGACACTCACTTCCGCACCTTCCGCTCCCACTCCGATTA	24
	Qy	356	CGGCGCATCACGCGGACCAGCGCGCCTCCTGGACGCCTGCGGCTTCTATTGGGGACCCCTG 4	15
	문	325	GGCGCATCACGCGGACCAGCGCGCTCCTGGACGCCTGCGGCTTCTATTGGGGACCCCT	84
	Qy	416	AGCGTGCACGGGGGGCACCGACCGGCTGCCGAGCCCGTGGGGACCCTTCTTGGTGCGC 4	75
	뮹	385	GCGTGCACGGGGCACGAGCGGCTGCGTGCCGAGCCCGTGGGCACCTTCTTGGTGCGC 4	44
	. Qy	7	GACAGTOGTCAACGGAACTGCTTCTTCGCGCTCAGCGTGAAGATGGCTTCGGGCCCCACG 5	35
	ğ	445	ACAGTCGCCAACGGAACTGCTTCTTCGCGCTCAGCGTGAAGATGGCTTCGGGCCCCAC	04
	γQ	536	AGCATCCGCGTGCACTTCCAGGCCGGCCGCTTCCACTTGGACGGCAGCCGCGAGACCTTC 5	95
	g	505	GCATCCGCGTGCACTTCCAGGCCGGCCGCCTTCCACTTGGACGGCAGCCGCGAGACCTT	64
	Qy	596	GACTGCCTTTTCGAGCTGCTGGAGCACTACGTGGCGGCGCCGCCGCCGCATGTTGGGGGCC 6	55
	В	565	TGCCTTTTCGAGCTGCTGGAGCACTACGTGGCGCGCCCCCCCC	24
	Qy	u	CCGCTGCGCCAGCGCCGCGCGCGCGCGCCGCAGCGCGCGC	
	Б		CGCTGCGCCAGCGCGCGTGCGGCCGCTGCAGGAGCTGTGTCGCCAGCGCATCGTGGCC	4
	Qy	716		75
	B	685	CCGTGGGTCGCGAGAACCTGGCGCGCATCCCTCTTAACCCCGGTACTCCGTGACTACCTG 7	44
	Qy	776	AGTICCTICCCCTTCCAGATCIGACCGGCTGCCGCTGTGCCGCAGCATTAAGTGGGGGCG 8	35
	ф	745	GTTCCTTCCCCTTCCAGATCTGACCGGCTGCCGCTGTGCCGCAGCATTAAGTGGGGGCG 8	04
	γQ		CCTTATTATTATTATTATTATTATTATTATTTTTTCTGGAACCACGTGGGAGCCCTCCC 8	95
	ф	805	CTTATTATTTCTTATTATTAATTATTATTATTTTCTGGAACCACGTGGGAGCCCTCCC 8	64
• •	Qy	968	ø	55
• •	ф	865	GCCTGGGTCGGAGGGAGTGGTTGTGGAGGGTGAGATGCCTCCCACTTCTGGCTGG	24
•	Qy	956	<u>, </u>	015
	В	925	rcarcccaccrcrcaeeeereeeerecrcccrccreerecrcccrcc	84
	Qy 1	1016	TGGTTGTAGCAGCTTGTGTGTGGGGCCAGGACCTGAATTCCACTCCTACCTCCCATGTT 1	075
	В	985	GGTTGTAGCAGCTTGTGTGTGTGGGGCCAGGACCTGAATTCCACTCCTACCTCTCCATGTT 1	044
	0у 1	07	TACATATTCCCAGTATCTTTGCACAAACCAGGGGTCGGGGAGGGTCTCTGGCTTCATTTT 1	135
•	뫄	045	ACATATICCCAGTATCTTTGCACAAACCAGGGGTCGGGGAGGGTCTCTGGCTTCATTTT 1	104

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Gregorieff, A., Pyronnet, S., Sonenberg, N. and Veillette, A. Regulation of suppressor of cytokine signalling-1 (SOCS-1) expression by translational repression
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Gregorieff, A., Pyron
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/product="suppressor of cytokine signalling-1"
/protein_id="AAD53324.1"
/db_xref="GI:5825620"
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                                                 TCTGCTGTGCAGAATATCCTATTTATATATTTTACAGCCAGTTTAGGTAATAAACTTTAT
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Sequence analysis of the conserved protamine gene cluster sho that it contains a fourth expressed gene
Mol. Reprod. Dev. 43 (1), 1-6 (1996)
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complement(2405. .2580)
/note-"B2 element"
5326. 5760
/gene="Prm3"
6513. .6827
/gene="Prm3"
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/gene="Prm2"
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/chromosome="10"
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Mus musculus mRNA f
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Mus musculus cDNA t
          Nature 3
97345634
                                                                                                                                 Submitted (24-JAN-1997) to the DDBJ/EMBL/GenBank databases. Akihiko Yoshimura, Kurume university, Institute of Life Science; 2432-3 Akikawa-machi, Kurume 839, Japan (Tel:0942-37-6313, pax:0942-31-5212)
                                                                                                                                                                                                                   Mus musculus
Eukaryota; M
                                                 Mitsui,K., Matsumoto,A., Tanimura,S.,
Miyazaki,T., Leonor,N., Taniguchi,T.,
                                                                   3 (sites)
Endo, T.A., Masuhara, M.,
                                                                                          Cloning of a novel 
Unpublished (1997)
                                                                                                                Yoshimura, A.
                                                                                                                                                                            Direct Submission
                                                                                                                                                                                        Yoshimura,A.
                                                                                                                                                                                                Rodentia; Sciurognathi;
1 (bases 1 to 1056)
                                         Komiya,S. and Yoshimura,A.
                    new protein containing an SH2 domain ature 387 (6636), 921-924 (1997)
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Sciurognathi; Muridae; Murinae;
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Ohtsubo,M., Misawa,H.,
Fujita,T., Kanakura,Y.,
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stat-induced stat inhibitor-1; Si
Mus musculus cDNA to mRNA, clone,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Submitted (25-JAN-1997) to the DDBJ/EMBL/GenBank databases. Tadamitsu Kishimoto, Osaka university, Medical school; Yamadaoka 2-2, Suita 565, Japan (E-mail:matsumotéimed3.med.osaka-u.ac.jp, Tel:+81-6-879-3831, Fax:+81-6-879-3839)

2 (bases 1 to 909)
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                                                                                                                                                                                                                                                                                                                                                                            Naka,T., Narazaki,M., Hirata,M., Matsumoto,T., Minamoto,S., Aono_A., Nishimoto,N., Kajita,T., Taga,T., Yoshizaki,K., Akira,
                                                                                                                                                                                                                                                                                                                                                                and Kishimoto, T.
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                                                                                                                                                                                                                                                                                                                                                                                                                            USA e-mail address: mdadams@tigr.org. The cosmid location is on chromosome 16p13.13. The orientation of the sequence is from SP6 end to T7 end. Genes were identified by a combination of five methods including: XGRAIL (available by anonymous fit from arthur.epm.ornl.gov), Genefinder (Phil Green, University of Washington), Genscan (Chris Burge, http://gnomic.stanford.Edu/-chris/GENSCANW.html) searches of the complete sequence against a peptide database, and the EST database at TIGR (http://www.tigr.org/tdb/at/at.html). A gene with homolgy to another protein is annotated as the isolog of that protein. Genes without pepetide homolgy having spliced EST hits are termed 'unknown protein'. Genes encoding tRNAs are predicted by tRNAscan-SE (Sean Eddy, http://genome.wustl.edu/eddy/tRNAscan-SE/).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   submitted (04-JUN-1997) The Institute for Genomic Research, Medical Center Dr., Rockville, MD 20850, USA 4 (bases 1 to 12589) Adams, M.D., Loftus, B.J., Zhou, L., La Bombard, M., Kim, U.J., Venter, J.C., Kramer, J.A. and Doggett, N.A. Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (28-AUG-1997) The Institute for Genomic Research, 9712 Medical Center Dr., Rockville, MD 20850, USA Address all correspondence to:
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/db_xref="taxon:9606"
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* NOTE: This is a 'working draft' sequence. It currently consists of 2 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
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2 Adams, M.D. and Loftus, B.J.
Direct Submission
Submitted (29-APR-1997) The Institute for Genomic
Medical Center Dr., Rockville, MD 20850, USA
3 (bases 1 to 25417)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mamma Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 25417)
Adams,M.D., Loftus,B.J., Zhou,L., Phillips,C., Brandon,R. Fuhrmann,J., Kin,U.J., Kerlavage,A.R. and Venter,J.C. Human chromosome 16p13 BAC clone CIT987SK-Protamine16
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 175950)
Bruce, D., Mundt, M., Doggett, N., Munk, C., Saunders, E
Jones, M., Buckingham, J., Chasteen, L., Thompson, S., (
                                                                                                                     AC007220 175950 bp
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           Saunders, E.,
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  Goodwin, L.
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Submitted (06-APR-1999) Center for Human Genome Studies, DOR Genome Institute, Los Alamos National Laboratory, MS M888, I Genome Institute, Los Alamos National Laboratory, MS M888, I Alamos, NM 87545, USA

* NOTE: This is a 'working draft' sequence. It currently

* consists of 2 contigs. Gaps between the contigs

* are represented as runs of N. The order of the pieces

* is believed to be correct as given, however the sizes

* of the gaps between them are based on estimates that have

* provided by the submittor.

* This sequence will be replaced

* by the finished sequence as soon as it is available and

* the accession number will be preserved

* the accession number of 29280 bp in length

* 29281 175550: contig of 146670 bp in length.
                              CCAGCCCCTGGCGACACTCACTTCCGCACCTTCCGCTCCCACTCCGATTACCGGCGCATC
                                                                                                                                                                                                                                                                                                                    CTATGGCCCACCCCTCCAGCTGGCCCCCTCGAGTAGGATGGTAGCACGCAACCAGGTGGCA 184
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                                                                                                         TCTTCCTCCTCGCCGCGGCCCCCGCGCGCCGGCCGTGCCCCGCGGTCCCGGCC
                                                                                                                                     TCGTCTTCGTCCTCGCCAGCGGCCCCCGGTGCGTCCCCGGCCCTGCCCGGCGGTCCCAGCC
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CCGGCCCCCGGCGACACGCACTTCCGCACATTCCGTTCGCACGCCGATTACCGGCGCATC
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Sequencing of Human Chromosome 16p13.3
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/db_xref="taxon:9606"
/clone="396B14"
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Pred. No. 2.7e-121;
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Kawachi-gun, Molecular

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t1p3; TIP3.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammal Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 1094)

Starr,R., Willson,T.A., Viney,E.M., Murray,L.J.L., Rayner, Jenkins,B.J., Gonda,T.J., Alexander,W.S., Metcalf,D., Nicoland Hilton,D.J.

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Direct Submission
Submitted (04-FEB-1997) C
Hall Institute of Medical
VIC 3050, Australia
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Jenkins, B.J., Gonda, T.J.,
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Similarity 83.5%;
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D; Mismatches 148;
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AB005043
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STAT induced STAT inhibitor-1.
Homo sapiens cDNA to mRNA.
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Biochem. Biophys. Res. Comm. 237, 79-83 (1997)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                          Submitted (21-JUN-1997) to the DDBJ/EMBL/GenBank databases. Seijiro Minamoto, Osaka University, Internal Medicine III; Yamadaoka 2-2, Suita, Osaka 565, Japan (E-mail:minamoto@imed3.med.osaka-u.ac.jp, Tel:06-879-3833, Fax:06-879-3839)
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1 (bases 1 to 1082)
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                                                       TCGGCTGGAGACGAGGCCGCAGACCCCTTCTCACCTCTTGAGGGGGGTCCTCCCCCCTCCTG
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Similarity 83.4%;
04; Conservative
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VRDSRQRNGFFALSVKMASGFYTSTRVHFQAGRFHLDGSRESFDCLFELLEHYVAAPRR
MLGAPLAGRRVRPLQELCRQRTVASTQRENLARIPLNPVLRDYLSSFPFQI*
a 396 c 316 g 216 t
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Pred. No. 8.2e-114;
0; Mismatches 146;
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                                                                     CAGCAGAGCCCCGACGGCGGTCAGAGCCCTCCTCGTCCTCGTCTTCGTCCTCGCCAGCGG 266
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                                                                                                           tch 50.5%; al Similarity 81.8%; 849; Conservative
                                                                                                                                                                                                                                                                                                                                                                                               Endo, T.A., Masuhara, M., Yokouchi, M., Suzuki, R., Sakamoto, H., Mitsui, K., Matsumoto, A., Tanimura, S., Ohtsubo, M., Misawa, H., Miyazaki, T., Leonor, N., Taniguchi, T., Fujita, T., Kanakura, Y., Komiya, S. and Yoshimura, A., A new protein containing an SH2 domain that inhibits JAK kina, Nature 387 (6636), 921-924 (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Direct Submission
Submitted (24-JAN-1997) to the DDBJ/EMBL/GenBank databases. Submitted (24-JAN-1997) to the DDBJ/EMBL/GenBank databases. Yoshimura, Kurume university, Institute of Life Science; 243 Alkawa-machi, Kurume 839, Japan (Tel:0942-37-6313,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens mRNA
AB000676
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2 (sites)
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/db_xref="taxon:9606"
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Pred. No. 3.8e-103;
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8 CCACTIGGACGGCAGCCGCGAGACCTICGACTGCCTTTTCGAGCTGCTGGAGCACTACGT 627 	8 CAGCGTGAAGATGGCTTCGGGGCCCCACGAGCATCCGCGTGCACTTCCAGGCCGGCC	8 CGAGCCCGTGGGCACCTTCTTGGTGCGCGACAGTCGTCAACGGAACTGCTTCTTCGCGCT 507	8 CGCCTGCGGCTTCTATTGGGGACCCCTGAGCGTGCACGGGGGCGCACGAGCGGCTGCGTGC 447	8 CCGCACCTTCCGCTCCCACTCCCGATTACCGGCGCGATCACGCGGACCAGCGCGCTCCTGGA 387	8 CCCCGTGCGTCCCCGGCCCTGCCCGGCGGTCCCAGCCCCAGCCCCTGGCGACACTCACT	8 AGCAGAGCCCCGACGGCGGTCAGAGCCCTCCTCGTCCTCGTCCTCGCCAGCGGC 267	8 CCCCTCGAGTAGGATGGTAGCACGCAACCAGGTGGCAGCCGACAATGCGATCTCCCCGGC 207	Match 46.3%; Score 571.6; DB 40; Length 908; Local Similarity 82.6%; Pred. No. 7.5e-94; nes 780; Conservative 0; Mismatches 129; Indels 31; Gaps 8;	/evidence-not /protdinct-sup /protdin_id-sup /protdin_id-sup /protdin_id-sup /protdin_id-sup /translation- VARARDGDTHERT VRDSRORNCFFAL MLGAPLRQREVER 120 a 347 c		/organism="nomo sapiens /db_xref="taxon:9606" <14>649 /product="suppressor of	Location/Qualifiers	E 99443878 E 2 (bases 2 (bases 5 Yandava,C. Direct Sub 6 Submitted Brigham ar USA	Eutheria; Primates; 1 (bases 1 to 908) Yandava,C.N., Pilla. Radiation hybrid and chromosomes 16p13 and Genomics 61 (1), 10.	human. SM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Ver

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                                                                 979
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                                                                                                          924 GGGTGAGATGCCTCCCACTTCTGGCTGGAGA-----CCTCATCCCACCTCTCAGGGGTGG 978
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                                                                                                                                                                                                                                       748 TCTTAACCCGGTACTCCGTGACTACCTGACTTCCTTTCCCTTTCCAGATCTGACCGGCTGC 807
                                                                                                                                                                                                                                                                                   658 GCCCGCCGTGCACGCAGCATTAACTGGGATGCCGTGTTATT-----TTGTTATTAC 708
                                         GGGTGCT----CCCCTCCTGGTGCTCCCCTCCGGGTCCCCC--CTGGTTGTAGCAGCT---- 1030
             -TGTGTCTGGGGCCAGGACC 1048
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